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NOTICE OF ALLOWANCE AND FEE(S) DUE

228	50

7590

06/08/2009

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

NGUYEN, VU ANH

ART UNIT PAPER NUMBER

1796

DATE MAILED: 06/08/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,430	01/05/2006	Stefan Becker	283351US0PCT	6482

TITLE OF INVENTION: POLYMERS THAT ARE SOLUBLE IN WATER OR CAN BE DISPERSED IN WATER AND CONTAIN ALKOXYLATED

DIALLYLAMINE DERIVATIVES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification of a) specifying a new cor	maintenance fees verspondence address	vill be i ; and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	dence address as ADDRESS" for
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			Γ					(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	DR .	ATTO	RNEY DOCKET NO.	CONFIR	MATION NO.
10/563,430	01/05/2006		Stefan Becker		2	83351US0PCT		6482
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nonprovisional	NO	\$1510	\$300	\$ 0		\$1810	0	9/08/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
NGUYEN,	, VU ANH	1796	526-317100	_				
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recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assign n assignment. 'Y and STATE OR (COUNT	RY)		
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	┛ Individual C	orporati	on or other private gro	up entity	Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
5. Change in Entity Stat	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no le	ongor claiming SMA	II ENT	FITV status, See 27 CI	⊋D 1.27(α).	(2)
NOTE: The Issue Fee and	d Publication Fee (if rea		d from anyone other tha	-				
interest as snown by the i	records of the United Sta	ites Patent and Trademark	Office.					
Authorized Signature				Date				
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1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT PAPER NUMBE				
		1796				
		DATE MAILED: 06/08/200	9			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 659 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 659 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/563,430	BECKER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Vu Nguyen	1796	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	nears on the cover sheet was (OR REMAINS) CLOSED or other appropriate common religious This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due cours	
1. This communication is responsive to <u>Amendment filed 03.</u>	7 <u>23/2009</u> .		
2. ☑ The allowed claim(s) is/are <u>2,3,5-7 <i>and</i> 13-28</u> .			
 3. Acknowledgment is made of a claim for foreign priority of all all bloomes of the priority documents have all all certified copies of the priority documents have all certified copies of the certified copies of the priority documents have all certified copies of the certified copies of the priority documents have all certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submined in the priority of the priority which gives a submined in the priority of the priority documents have all certified in the priority documents have all certified in the priority documents have all certified copies of the priority documents have all cert	e been received. e been received in Application comments have been received in Application of this communication to fight MENT of this application. Initted. Note the attached Experience of the submitted. It is son's Patent Drawing Reviews Patent Drawing Reviews Amendment / Comment 1.84(c)) should be written on the header according to 37 Cosit of BIOLOGICAL MA	ion No ed in this national stage application for the drawings in the front (not the back: FR 1.121(d). ed in No ed in No capacity of the drawings in the front (not the back: FR 1.121(d). FERIAL must be submitted. Note the stage of the drawings in the submitted.	nents EE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /Vu Nguyen/ Examiner, Art Unit 1796	6. ☐ Interview Paper No 7. ☐ Examiner 8. ☒ Examiner 9. ☐ Other /David Wu/	nformal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowand atent Examiner, Art Unit 1796	ce

DETAILED ACTION

Response to Amendment

1. This Office action is in response to the Amendment filed 03/23/2009, wherein claims 1 and 4 have been cancelled and new claims 25-28 have been added. Claims 2, 3, 5-7 and 13-28 are pending in this application.

Response to Arguments

2. Applicant's arguments, see Remarks (pages 7-13), filed 03/23/2009, with respect to the rejection of claims 1-8 and 13-24 have been fully considered and are persuasive. The rejection of the claims has been withdrawn.

Allowable Subject Matter

- 3. Claims 2, 3, 5-7 and 13-28 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The present claims are allowable over the closest prior art references Anchor et al. (US 5,478,883) and Gopalkrishnan et al. (US 5,733,861).

The independent claim 25 recites a polymer made of monomer A, monomer B, and optionally monomer C, wherein the molar ratio of A to B is 1:1 to 1:6 and wherein A is at least one alkoxylated diallylamine, B is at least one unsaturated mono- or dicarboxylic acid, anhydride thereof, or mixtures thereof, and C is an unsaturated monomer.

Page 3

Each of the two references teaches a polymer made of at least an alkoxylated diallylamine and an unsaturated carboxylic acid. However, the disclosed molar ratio of these two monomers is much smaller than the claimed value. The range of said molar ratio taught by Gopalkrishnan does touch the claimed range. However, (1) since Gopalkrishnan teaches away from increasing the proportion of the diallylamine monomer, (2) since alkoxylated diallylamine is often employed as a reactive surfactant and, accordingly, only a small amount of which is used in a polymer, and (3) since the fields of endeavor of the references and the claimed invention are different, the examiner finds no obvious reasons for one skilled in the art to modify the prior art polymers by increasing the proportion of the diallylamine monomer to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu Nguyen whose telephone number is (571)270-5454. The examiner can normally be reached on M-F 7:30-5:00 (Alternating Friday Off).

Application/Control Number: 10/563,430 Page 4

Art Unit: 1796

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu Nguyen Examiner Art Unit 1796

/David Wu/ Supervisory Patent Examiner, Art Unit 1796